

8.5

7.6

NOTE: ALL EXISTING BALANCE DAMPERS TO BE CONCEALED IN HARD CEILING NEED TO BE OUTFITTED WITH DURO DYNE 90 ANGLE DIE CAST MITRE GEAR ASSEMBLY (MODEL AD38) AND 3/8" CONCEALED STYLE REGULATOR SET WITH HEX NUT (MODEL SRC380). MOUNT CONCEALED DAMPER REGULATOR FLUSH WITH CEILING AND PAINT COVER TO MATCH.

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## GENERAL NOTES:

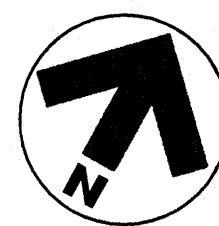
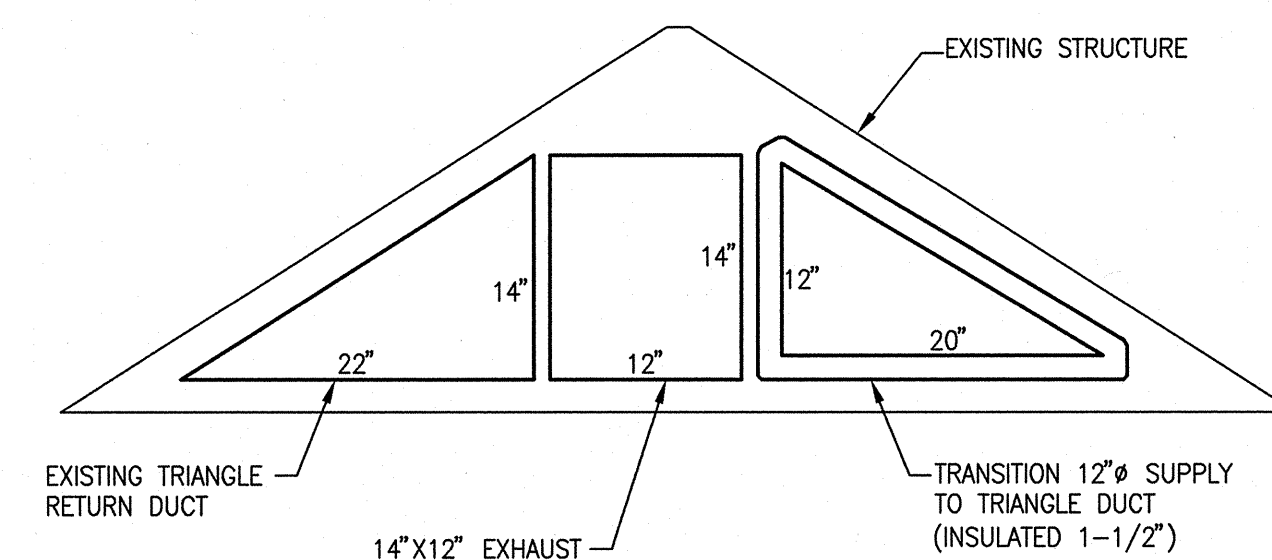
- ROUTE DUCTWORK IN COORDINATION WITH OTHER TRADES. HOLD DUCTWORK AS HIGH AS POSSIBLE AND ROUTE DUCTWORK WITHIN STRUCTURE WHERE POSSIBLE.
- DUCT SIZES INDICATED FOR CONNECTION TO EQUIPMENT MAY DIFFER FROM EXACT UNIT CONNECTION DIMENSIONS. PROVIDE ALL NECESSARY TRANSITIONS FROM DUCT SIZES LISTED TO UNIT CONNECTION.
- TEMPERATURE SENSORS SHALL BE INSTALLED AT 48" AFF UNLESS NOTED OTHERWISE. COORDINATE JUNCTION BOX INSTALLATION WITH ELECTRICAL CONTRACTOR.
- FIRE DAMPERS SHALL BE 1-1/2 HOUR RATED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TRANSITIONS TO AVOID CONFLICT WITH OTHER DUCTWORK, PIPING, STRUCTURE, ETC. AS PART OF THIS CONTRACT. WHEREVER AVAILABLE SPACE ALLOWS, OFFSETS SHALL BE MADE WITH 45 DEGREE ELBOWS.
- ALL CEILING DIFFUSERS SHALL BE PROVIDED WITH 4-WAY THROW PATTERN UNLESS OTHERWISE NOTED.
- TRANSITION AS NECESSARY FROM DUCT SIZES INDICATED ON PLAN TO EQUIPMENT DUCT CONNECTION.
- PIPING PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRESTOPPED IN ACCORDANCE NFPA-90A.
- DUCTWORK AND PIPING SHOWN ARE FOR GENERAL ROUTING PURPOSES ONLY. CONTRACTOR SHALL CONFIRM EXACT ROUTING WITH OTHER TRADES AND PROVIDE ALL NECESSARY TRANSITIONS, HIGH POINT VENTS AND LOW POINT DRAINS AND OFFSETS NECESSARY TO INSTALL A COMPLETE AND FUNCTIONING SYSTEM.
- THE CEILING SPACE FROM THE BOTTOM OF THE CEILING GRID TO A MINIMUM OF 6" ABOVE THE BOTTOM OF THE CEILING GRID IS RESERVED FOR INSTALLATION OF CEILING MOUNTED ITEMS (I.E. LIGHT FIXTURES, SPEAKERS, DIFFUSERS). NO PIPING, DUCTWORK, CONDUITS, ETC., EXCEPT DROPS SERVING THE CEILING MOUNTED ITEMS, IS ALLOWED TO BE INSTALLED IN THIS SPACE, UNLESS OTHERWISE APPROVED BY THE RESIDENT ENGINEER.
- CONTRACTOR IS REQUIRED TO FOLLOW ALL OSHA REGULATIONS CONCERNING CONSTRUCTION. THE SUPERINTENDENT IS REQUIRED TO HAVE COMPLETED, AS A MINIMUM, OSHA'S 10-HOUR TRAINING AND BE KNOWLEDGABLE OF GENERAL SAFETY REQUIREMENTS FOR CONFINED SPACES, FALL PROTECTION, PERSONAL PROTECTIVE EQUIPMENT, TRENCHING, SCAFFOLDING, CRANES, ELECTRICAL, ETC. APPLICABLE SUBCONTRACTORS ARE TO HAVE A COMPETENT PERSON ON SITE WHEN REQUIRED BY OSHA.
- IF ACCESSING A CONFINED SPACE, THE CONTRACTOR IS REQUIRED HAVE THEIR OWN CONFINED SPACE AIR MONITOR AND TO TEST THE AIR PRIOR TO ENTERING ANY CONFINED SPACE. IF THE CONTRACTOR MUST ENTER A SANITARY SEWER MANHOLE, IN ADDITION TO A CONFINED SPACE AIR MONITOR, THEY MUST HAVE PROPER OSHA RESCUE EQUIPMENT FOR A PERMIT REQUIRED CONFINED SPACE. WHERE IT IS NOT POSSIBLE FOR THE VA TO SHUT DOWN AN ELECTRICAL PANEL OR CIRCUIT, THE CONTRACTOR MUST PROVIDE AND USE THE APPROPRIATE SAFETY CLOTHING AND EQUIPMENT AS REQUIRED BY NFPA 70E. THE VA WILL BE MONITORING THE CONTRACTOR'S COMPLIANCE WITH OSHA REGULATIONS. FAILURE TO COMPLY IS GROUNDS FOR STOPPING WORK.
- REFER TO HEATING WATER HYDRONIC SCHEMATIC ON SHEET M3.3 FOR VALVE LOCATIONS, PIPE SIZES, AND ACCESSORY LOCATIONS.
- BALL VALVES SHALL BE USED THROUGHOUT THE HYDRONIC SYSTEM FOR ISOLATION REGARDLESS OF PIPE SIZE.
- ALL CHILLER OR CONDENSING UNIT COILS ARE TO BE COMPLETELY PROTECTED USING AIR INTAKE FILTRATION SCREENS SPECIFICALLY DESIGNED FOR COTTONWOOD FILTRATION. THE SCREENS SHALL BE EASILY REMOVABLE WITH QUARTER TURN CONNECTIONS. THE SCREEN SHALL NOT VOID THE WARRANTY OF THE ORIGINAL EQUIPMENT MANUFACTURER. THE SCREENS SHALL HAVE A STATIC PRESSURE DROP LESS THAN 0.1 INCHES OF WATER GAGE. BE UV RESISTANT, FLAME RESISTANT, NON-ELECTRO STATIC, AND MOLD AND MILDEW RESISTANT. THE FILTERS SHALL BE IN ACCORDANCE WITH THE NATIONAL AIR FILTRATION ASSOCIATION FOR COTTONWOOD FILTERS.

## # SHEET NOTES:

- MOUNT CONDENSING UNIT ON ROOF. ROUTE AND SIZE REFRIGERATION PIPING TO ASSOCIATED FAN COIL UNIT (FC-2) PER MANUFACTURER'S REQUIREMENTS.
- MOUNT FAN COIL ON WALL. FURNISH WITH ALL HARDWARE FOR SURFACE MOUNTING. ROUTE CONDENSATE FROM PUMP AS SHOWN ON PLUMBING PLANS. COORDINATE EXACT LOCATION WITH EQUIPMENT IN ROOM.
- EXTEND 305mm x 355mm (12"x14") EXHAUST DUCT UP THROUGH ROOF TO EXHAUST CAP.
- REMOVE EXISTING FILTER MEDIA AND TRANSITION AS REQUIRED FROM EXISTING VAV BOX TO NEW LOW PRESSURE DUCTWORK. ALL FINAL CONNECTIONS TO VAV BOX SHALL BE FLEXIBLE.
- EXTEND EXISTING DUCTWORK INSTALLED IN PHASE I AS SHOWN.
- 254mm x 508mm (10"x20") DUCT FROM 2ND FLOOR. RE: M2.2 FOR CONTINUATION.
- FOLLOW CONTOUR OF CEILING BETWEEN JOISTS AND ROUTE THROUGH WALL FRAME TO ENTER ATTIC SPACE. FIELD VERIFY EXACT CONDITIONS AND REQUIREMENTS.
- 3-WAY THROW DIFFUSER.
- INSTALL MANUAL DAMPER AND PROVIDE WITH DURO DYNE 90 ANGLE DIE CAST MITRE GEAR ASSEMBLY (MODEL AD38) AND 3/8" CONCEALED STYLE REGULATOR SET WITH HEX NUT (MODEL SRC380). MOUNT CONCEALED DAMPER REGULATOR FLUSH WITH CEILING AND PAINT COVER TO MATCH.
- DUCT TRANSITION.

## 1 THIRD FLOOR PLAN BLDG. 33

0' 1' 2' 4' 8' 12' SCALE: 1/4" = 1'-0"

2 DUCT DETAIL  
NOT TO SCALE

REVISION 1

06/13/12

DATE

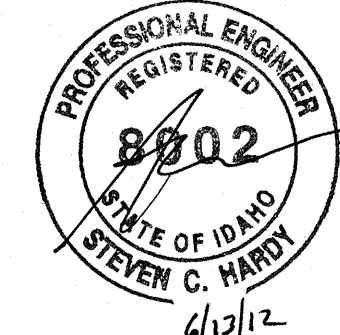
**CSHQ**

C.W. MOORE PLAZA  
250 S. 5TH ST. BOISE, ID 83702  
(208) 343-4635 FAX (208) 343-1858  
<http://www.cshqa.com>

STEVE C. HARDY, P.E.  
C.W. MOORE PLAZA  
250 S. 5TH ST.  
BOISE, IDAHO  
PHONE: 208-343-4635 FAX: 208-343-1858

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531-10-114\_M2.4

XREF FILE NAME:  
531-10-114\_xTBLK  
531-10-114\_xTHD\_FLR  
531-11-112\_M2.4

DRAWING TITLE  
THIRD FLOOR  
MECHANICAL PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE  
VAMC  
PHASE II: BUILDING 33  
RENOVATION

BUILDING NUMBER

33

CHECKED

SCH

DRAWN

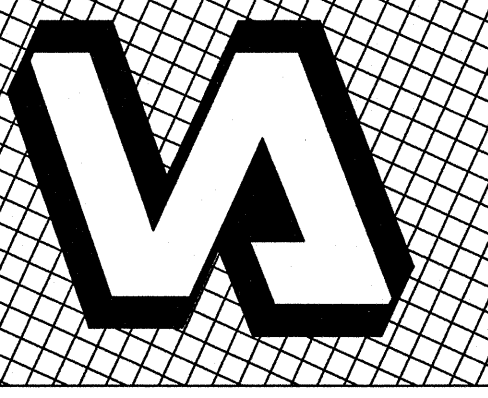
DJH

LOCATION  
VAMC BOISE, IDAHODATE  
06/01/12PROJECT NO.  
531-10-114

DRAWING NO.

M2.4

DWG 60 OF 103



DEPARTMENT OF VETERANS AFFAIRS